

Bureau of Land Management
Yuma Field Office

***Restoration Efforts Along
the Lower Colorado River
2011 – 2013***

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Restoration Areas on Lower Colorado River

- Betty's Kitchen
- Mitty Lake Wildlife Area
- Paradise Cove East/Transient Area
- Paradise Cove Mitigation Area



Laguna Fire

- Laguna Fire occurred May 2011, destroying 756 acres, including 567 acres of BLM lands.



Mittry Lake Restoration



1:7,949



Betty's Kitchen



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Restoration Work

- Accomplishments to date include:
 - Removal of hazardous trees and other weeds
 - Filling of dry channels to remove safety hazards
 - Replacement and major maintenance of facilities



Betty's Kitchen 2013



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Next Steps

- October 2013: Native seeding on 15 acres followed by sprinkler irrigation (Desert sunflower and Sand verbena)
- Winter 2014: 850 Mesquite trees planted by volunteers
- Spring 2014: New benches and tables in addition to resurfacing the walking trail



Other Restoration within Mittry Landscape

- 2012-2013 Efforts Included:
 - 13 Acres Native tree planting and seeding
 - Created 30 acres of new planting areas with the removal of saltcedar
- Results:
 - Yellow billed cuckoo nesting habitat
 - Populations of deer, quail, dove, raccoon, bobcat, coyote, and neo-tropical migratory birds



Over 100 Volunteers Planting Cottonwood and Willow Trees



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76% success of 2012 cottonwood and willow plantings with volunteer quailbush and arrowweed



Next Steps

- On-going irrigation
- Weed (mechanical and chemical) treatments to prevent saltcedar re-establishment
- November 2013: Native wildflower seeding on 10 acres
- February 2014: Plant 20 acres, approximately 20,000 trees, in cottonwood, willow, and mesquite



Mittry Moist Soil Units

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Moist Soil Units

- Since 2008, 43 acres cultivated in Bermuda Grass
- Beginning salinity averaged 137 – 162 Ms/cm
- Current salinity averages 26 - 40 Ms/cm
- Annual treatments:
 - Prescribed burning
 - Cutting and removal of grass stems that hold salts
 - Application of Sulfuric Acid; N-Phuric 15/49; & 32-0-0
 - Flood irrigation
- Winter 2014: 10 acres will be planted in trees



Paradise Project Area



Source: Esri, DigitalGlobe, GeoEye, Iacubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



1:12,500



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Paradise Cove East/ Transient Area



Designed by: FPC
Drawn by: FPC

PARADISE COVE

SITE FEATURES

FIGURE 1



17 acres of Restoration Work



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Restoration Work 2013



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Next Steps

- Currently working with the Bureau of Reclamation Yuma Area Office to:
 - Complete foundation earthwork for successful flood irrigation throughout the site and public parking
 - Open the silted-in boat ramp located within Paradise Cove



Next Steps

- Currently working with Arizona State Forestry Division to:
 - Conduct mechanical and chemical treatment of saltcedar and other invasive species
 - Establish firebreaks to protect the private lands to the East and tribal lands to the West
 - Maintain line-of-sight for law enforcement and fire personnel
 - Continue cleanup of Illegal dumping



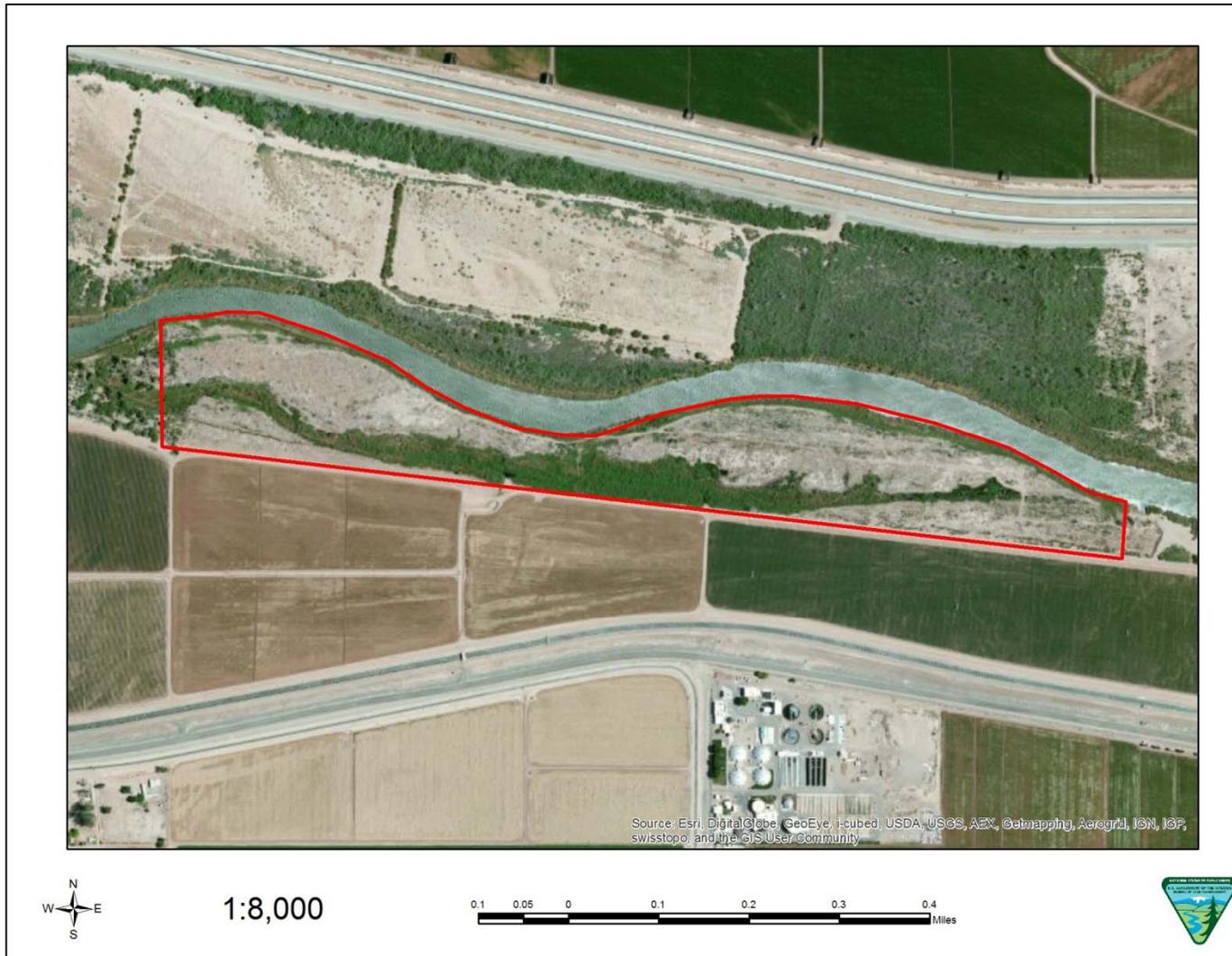
Next Steps

- BLM was funded \$18,000 by the Arizona Game and Fish Department Heritage Grant program to establish a walking trail with interpretive signage throughout the site.



Paradise Cove West CBP Mitigation

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Any Questions?

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